APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS OF DATA FROM FIXED STATIONS IN THE MISSISSINEWA RIVER WATERSHED 1991 TO 1997

Station: MS-

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	79	176.5063	167.6023	185.4103	171	13944	86	269	150	198	183	48	1580.228	39.75208	4.472458	0.333721	0.270545	0.06899	0.534952
Ammonia (mg/l as N)	79	0.099367	0.080431	0.118303	0.05	7.85	0.05	0.4	0.05	0.1	0.35	0.05	0.007147	0.08454	0.009512	1.73469	0.270545	2.090624	0.534952
BOD (mg/l)	36	1.763889	1.286541	2.241237	1.4	63.5	0.5	6.6	1	2	6.1	1	1.990373	1.410806	0.235134	1.994932	0.392544	4.221011	0.768076
COD (mg/l)	1	14				14	14	14											
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	79	3.431013	3.04824	3.813785	3	271.05	0.05	7.7	2.3	4.3	7.65	2	2.92034	1.7089	0.192266	0.5565	0.270545	-0.1355	0.534952
Total Phosphorus (mg/l as P)	79	0.122722	0.093257	0.152186	0.08	9.695	0.015	0.96	0.05	0.14	0.945	0.09	0.017304	0.131544	0.0148	3.805033	0.270545	20.82634	0.534952
Total Solids (mg/l)	79	382.2152	360.3866	404.0437	363	30195	276	1058	328	415	782	87	9497.325	97.45422	10.96446	4.461184	0.270545	29.28285	0.534952
Suspended Solids (mg/l)	79	28.87342	15.78764	41.9592	14	2281	2	496	7	33	494	26	3413.112	58.42185	6.572971	6.828025	0.270545	53.70989	0.534952
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.05				0.05	0.05	0.05											
E. coli (CFU/100ml)	77	231.5584	2.836215	460.2807	40	17830	5	8500		100	8495	95	1015480	1007.71	114.8393	7.635042	0.273908	61.85599	0.54146
TOC (mg/l)	0																		
Hardness (mg/l)	79	247.0759	234.5459	259.606	240	19519	98	390	211	286	292	75	3129.353	55.94062	6.293812	0.146296	0.270545	0.183304	0.534952
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	11.02525	10.36031	11.69019	10.26	672.54	7.52	20.11	9.5	12.48	12.59	2.98	6.740715	2.596289	0.332421	1.479792	0.30627	2.887251	0.603837
pH	62	8.015161	7.918344	8.111979	8.02	496.94	7	9.11	7.83	8.27	2.11	0.44	0.145347	0.381244	0.048418	-0.04222	0.303902	0.565863	0.599288
Copper (ug/l)	9	2.955556	1.816661	4.09445	2	26.6	2	5.3	2	4	3.3	2	2.195278	1.481647	0.493882	1.071045	0.717137	-0.869	1.399708
Iron (ug/l)		231.125	124.4026	337.8474	235	1849	39	390	130	345	351	215	16295.84	127.6552	45.13291	-0.17314	0.752101	-1.21822	1.48088
Zinc (ug/l)		3.34375	0.757442	5.930058	2.25	26.75	2.25	11	2.25	2.25	8.75	0	9.570313	3.093592	1.09375	2.828427	0.752101	8	1.48088

tation: MS-28

	Valid N	Mean	Confid. -95.000%	Confid. +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	80	210.925	201.7413	220.1087	217.5	16874	123	287	188	240.5	164	52.5	1703.032	41.26781	4.613882	-0.36872	0.268909	-0.44154	0.531786
Ammonia (mg/l as N)	80	0.0875	0.070199	0.104801	0.05	7	0.05	0.4	0.05	0.075	0.35	0.025	0.006044	0.077745	0.008692	2.170522	0.268909	4.080091	0.531786
BOD (mg/l)	40	2.35	1.837885	2.862115	2.05	94	0.5	6.3	1.15	3.55	5.8	2.4	2.564103	1.601282	0.253185	0.783221	0.373783	-0.14823	0.7326
COD (mg/l)	80	19.07625	17.51154	20.64096	18	1526.1	7.6	43.2	14	22.7	35.6	8.7	49.43702	7.031147	0.786106	0.851202	0.268909	0.89971	0.531786
Cyanide (mg/l)	13	0.005462	0.004737	0.006186	0.005	0.071	0.005	0.009	0.005	0.005	0.004	0	1.4E-06	0.001198	0.000332	2.682395	0.616336	6.964286	1.190874
Nitrate (mg/l as N)	80	3.3175	2.829584	3.805416	2.7	265.4	0.6	9.4	1.65	4.35	8.8	2.7	4.807032	2.192494	0.245128	1.083674	0.268909	0.245074	0.531786
Total Phosphorus (mg/l as P)	80	0.156313	0.132727	0.179898	0.14	12.505	0.015	0.56	0.08	0.19	0.545	0.11	0.011233	0.105985	0.011849	1.588154	0.268909	3.21827	0.531786
Total Solids (mg/l)	79	522.0633	498.9993	545.1273	491	41243	330	896	458	581	566	123	10602.83	102.97	11.58503	0.953205	0.270545	1.428129	0.534952
Suspended Solids (mg/l)	79	37.67089	26.88705	48.45472	24	2976	2	310	10	40	308	30	2317.916	48.14474	5.416706	3.160369	0.270545	13.33413	0.534952
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	0																		
E. coli (CFU/100ml)	75	1095.133	354.8606	1835.406	200	82135		18000			17995	590	1E+07	3217.471	371.5215	4.284117	0.2774	18.03997	0.548211
TOC (mg/l)	0																		
Hardness (mg/l)	80	312.275	297.4301	327.1199	317	24982		481	278	349		71	4449.822	66.70699	7.458068	-0.23167	0.268909	0.357368	0.531786
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	63	10.65222	10.15384	11.1506	10.59	671.09	7	15.1	8.83	11.8	8.1	2.97	3.916027	1.978895	0.249317	0.369603	0.301589	-0.40115	0.594841
pH	64	7.985469	7.896849	8.074088	8.03	511.07	7.04	8.64	7.8	8.235	1.6	0.435	0.125863	0.354772	0.044347	-0.51242	0.299327	0.098193	0.590491
Copper (ug/l)	16	4.84375	2.980004	6.707496	4.4	77.5	2	15	2	6	13	4	12.23329	3.497612	0.874403	1.870556	0.564308	4.110661	1.090774
Iron (ug/l)	8	575.5	-9.83185	1160.832	350	4604	74	2200	140	675	2126	535	490196.3	700.1402	247.5369	2.210018	0.752101	5.245233	1.48088
Zinc (ug/l)	16	11.93125	5.745532	18.11697	9.25	190.9	2.25	50	6.3	10	47.75	3.7	134.7566	11.60847	2.902118	2.664491	0.564308	8.081322	1.090774

Station: MS-36

	Valid N	Mean	Confid. -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	79	220.8734	211.1043	230.6426	228	17449	109	299	190	250	190	60	1902.24	43.61468	4.907035	-0.59036	0.270545	0.002587	0.534952
Ammonia (mg/l as N)	79	0.105063	0.084491	0.125636	0.05	8.3	0.05	0.5	0.05	0.1	0.45	0.05	0.008436	0.091845	0.010333	2.0372	0.270545	4.502303	0.534952
BOD (mg/l)	38	2.571053	1.845073	3.297032	1.9	97.7	0.5	11	1.1	3.4	10.5	2.3	4.878329	2.208694	0.358297	1.811088	0.382818	4.396938	0.7497
COD (mg/l)	79	19.22278	17.1668	21.27877	17.8	1518.6	7	68	14	22	61	8	84.25383	9.178989	1.032717	2.610466	0.270545	10.96154	0.534952
Cyanide (mg/l)	0																		
Nitrate (mg/l as N)	79	2.876582	2.317634	3.435531	2.5	227.25	0.05	9.6	0.8	4	9.55	3.2	6.227233	2.495442	0.280759	0.903416	0.270545	-0.09176	0.534952
Total Phosphorus (mg/l as P)	79	0.138797	0.113638	0.163957	0.11	10.965	0.015	0.61	0.07	0.17	0.595	0.1	0.012617	0.112325	0.012637	2.047847	0.270545	5.624128	0.534952
Total Solids (mg/l)	78	461.641	449.4679	473.8142	456.5	36008	338	579	428	507	241	79	2915.064	53.99134	6.113315	0.054641	0.272211	-0.45354	0.538176
Suspended Solids (mg/l)	78	34.74359	26.06426	43.42292	23.5	2710	2	272	13	46	270	33	1481.881	38.49521	4.358725	3.540122	0.272211	18.45838	0.538176
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	79	0.951899	0.863834	1.039963	0.8	75.2	0.3	1.9	0.6	1.2	1.6	0.6	0.15458	0.393166	0.044235	0.519577	0.270545	-0.52388	0.534952
E. coli (CFU/100ml)	76	4056.513	-204.578	8317.604	255	308295	5	120000	90	665	119995	575	3.5E+08	18647.3	2138.992	5.813294	0.275637	33.53452	0.544804
TOC (mg/l)	0																		
Hardness (mg/l)	79	301.4937	288.9014	314.0859	314	23818	148	404	264	337	256	73	3160.51	56.21841	6.325065	-0.68186	0.270545	0.240475	0.534952
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	10.41246	9.875188	10.94973	10.56	635.16	5.67	16.04	8.87	11.98	10.37	3.11	4.400756	2.097798	0.268595	0.122945	0.30627	0.052717	0.603837
pH	63	7.92619	7.84155	8.010831	8.02	499.35	6.9	8.52	7.75	8.18	1.62	0.43	0.11295	0.33608	0.042342	-0.80061	0.301589	0.321589	0.594841
Copper (ug/l)	76	4.157895	3.566162	4.749628	4	316	2	13	2	5	11	3	6.70567	2.589531	0.29704	1.529371	0.275637	2.331888	0.544804
Iron (ug/l)	10	597	302.5322	891.4678	510	5970	170	1500	280	760	1330	480	169445.6	411.6377	130.1713	1.243761	0.687043	1.431766	1.334249
Zinc (ug/l)	77	12.46234	10.44146	14.48322	10	959.6	2.25	51	10	12	48.75	2	79.27488	8.903644	1.014664	2.483821	0.273908	7.629884	0.54146

Station: MS-99

	Valid N	Mean	Confid. -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std.Err. Skewness	Kurtosis	Std.Err. Kurtosis
Alkalinity (mg/l)	79	251.6709	241.1751	262.1667	254	19882	115	326	219	285	211	66	2195.736	46.85869	5.272014	-0.7131	0.270545	0.259734	0.534952
Ammonia (mg/l as N)	79	0.081013	0.060699	0.101326	0.05	6.4	0.05	0.7	0.05	0.05	0.65	0	0.008225	0.09069	0.010203	4.727578	0.270545	28.16995	0.534952
BOD (mg/l)	38	1.236842	0.95612	1.517564	1	47	0.5	4.6	0.5	1.7	4.1	1.2	0.729417	0.854059	0.138547	1.790079	0.382818	5.11246	0.7497
COD (mg/l)	79	16.57848	14.32919	18.82777	14	1309.7	6	68	10.7	20.6	62	9.9	100.8425	10.04204	1.129817	2.708934	0.270545	10.01652	0.534952
Cyanide (mg/l)	79	0.005266	0.005084	0.005448	0.005	0.416	0.005	0.009	0.005	0.005	0.004	0	6.6E-07	0.000812	9.1E-05	3.158337	0.270545	9.312598	0.534952
Nitrate (mg/l as N)	79	3.88481	2.961941	4.807679	3.4	306.9	0.05	31	1.2	4.9	30.95	3.7	16.97586	4.120177	0.463556	3.878786	0.270545	23.42568	0.534952
Total Phosphorus (mg/l as P)	79	0.172848	0.142489	0.203207	0.14	13.655	0.015	0.79	0.08	0.22	0.775	0.14	0.018371	0.135539	0.015249	1.99068	0.270545	5.421785	0.534952
Total Solids (mg/l)	79	480.0759	463.6359	496.516	465	37926	371	904	437	511	533	74	5387.148	73.39719	8.257829	2.865911	0.270545	13.7742	0.534952
Suspended Solids (mg/l)	79	25.81013	14.18885	37.4314	10	2039	2	396	5	22	394	17	2691.899	51.88352	5.837352	5.211824	0.270545	33.84049	0.534952
Dissolved Solids (mg/l)	0																		
Sulfate (mg/l)	0																		
TKN (mg/l as N)	1	0.6				0.6	0.6	0.6											
E. coli (CFU/100ml)	75	561.1333	310.0534	812.2133	250	42085	5	7500	60	440	7495	380	1190885	1091.277	126.0098	4.249314	0.2774	22.54612	0.548211
TOC (mg/l)	0																		
Hardness (mg/l)	79	335.1646	323.0664	347.2627	344	26478	166	488	309	369	322	60	2917.344	54.01245	6.076875	-0.57834	0.270545	1.211433	0.534952
Chloride (mg/l)	0																		
Dissolved Oxygen (mg/l)	61	10.08426	9.549791	10.61873	9.83	615.14	4.21	16.03	8.55	11.32	11.82	2.77	4.355018	2.086868	0.267196	0.239941	0.30627	0.667647	0.603837
pH	62	7.917097	7.832726	8.001468	8.005	490.86	7.07	8.6	7.76	8.14	1.53	0.38	0.110378	0.332232	0.042194	-0.35815	0.303902	-0.15481	0.599288
Copper (ug/l)	10	3.32	1.471172	5.168828	2	33.2	2	10	2	4.5	8	2.5	6.679556	2.584484	0.817285	2.302979	0.687043	5.53221	1.334249
Iron (ug/l)	9	446.2222	-75.1441	967.5885	190	4016	66	2200	160	230	2134	70	460053.4	678.2724	226.0908	2.696546	0.717137	7.467977	1.399708
Zinc (ug/l)	10	5.14	2.706922	7.573078	5.05	51.4	2.25	12	2.25	5.2	9.75	2.95	11.56822	3.401209	1.075557	1.203947	0.687043	0.63746	1.334249

APPENDIX B

MISSISSINEWA RIVER WATERS ASSESSED IN THE CLEAN WATER ACT SECTION 305(B) REPORT

Waterbody ID	Hydrologic unit	Segment name	Size (mi.)	YEAR 303D	Aquatic Life	Fish Cons	Contact (Recr)	Bio comm*	Copper	Cyanide	Lead	Mercury	Low DO	Pathogens	PCBs	Pesticide	Priority organics	Salinity/TDS/ chlorides	ammonia	Asssess date
INB0311_00	05120103010010	Mitchell Ditch and other tributaries	8.18		X	X	X													
INB0311_T1001	05120103010010	Mississinewa River - mainstem above Ltl Mississinewa R	1.70	1998	X	P	X								M					19980301
INB0312_00	05120103010020	Gettinger Ditch and other tributaries	8.13		X	X	X													
INB0312_T1002	05120103010020	Little Mississinewa River mainstem	8.42	1998	F	N	X								H					19991108
INB0313_00	05120103010030	Jordan Creek and other tributaries	9.05		F	X	X													
INB0313_T1003	05120103010030	Mississinewa River - mainstem	2.36	1998	F	P	X								M					19991108
INB0314_00	05120103010040	HARSHMAN CREEK - LOWES BRANCH	17.06		X	X	X													
INB0315_00	05120103010050	Porter/ Miller Creeks and other tributaries	22.04		X	X	X													
INB0315_T1004	05120103010050	Mississinewa River - mainstem	2.30	1998	X	P	X								M					19980301
INB0316_00	05120103010060	Clear Creek and other tributaries	30.57		X	X	X													
INB0316_T1005	05120103010060	Mississinewa River - mainstem	2.58	1998	X	P	X								M					19980301
INB0317_00	05120103010070	Mud/ O'Brien Creeks and other tributaries	20.28		X	X	X													
INB0317_T1006	05120103010070	Mississinewa River - mainstem	0.85	1998	X	P	X								M					19980301
INB0321_00	05120103020010	Unnamed tributary of Mississinewa R	1.79		F	X	X													
INB0321_T1007	05120103020010	Mississinewa River - mainstem	4.89	1998	F	P	X								M					19991122
INB0322_00	05120103020020	Days Creek basin	10.29		X	X	X													
INB0322_T1008	05120103020020	Mississinewa River - mainstem	1.21	1998	X	P	X								M					19980301
INB0323_00	05120103020030	Bear Creek basin	7.80		X	X	X													
INB0324_T1009	05120103020040	Mississinewa River - mainstem	4.54	1998	X	P	X								M					19980301
INB0325_00	05120103020050	BUSH CREEK - ELKHORN CREEK	11.85		X	X	X													
INB0326_00	05120103020060	Platt Nibarger Ditch	4.92		X	X	X													
INB0326_T1010	05120103020060	Mississinewa River - mainstem	5.02	1998	F	P	X								M					19991108
INB0327_00	05120103020070	Mud Creek basin	5.30		X	X	X													
INB0327_T1011	05120103020070	Mississinewa River - mainstem	1.62	1998	X	P	X					S			M					19980301
INB0328_00	05120103020080	HALFWAY CREEK - REDKEY RUN	9.26		X	X	X													
INB0331_00	05120103030010	Campbell Creek	11.78		X	X	X													
INB0332_00	05120103030020	Bosman Ditch	4.25	1998	F	X	X													
INB0332_T1012	05120103030020	Mississinewa River - mainstem	11.71	1998	X	P	X					S			M					19980301
INB0333_00	05120103030030	REES DITCH	8.05		X	X	X													
INB0334_T1013	05120103030040	Mississinewa River - mainstem	8.40	1998	F	P	N					S		M	M					19991108
INB0335_00	05120103030050	Pike Creek basin	10.99		F	X	X													

Use support: F-fully supporting,P-partially supporting,N-not supporting,X-Not assessed,A-Not attainable. Cause magnitude: S-slight,M-moderate,H-high,T-more information needed. *Biological community status-stressor not identified.

Waterbody ID	Hydrologic unit	Segment name	Size (mi.)	YEAR 303D	Aquatic Life	Fish Cons	Contact (Recr)	Bio comm*	Copper	Cyanide	Lead	Mercury	Low DO	Pathogens	PCBs	Pesticide	Priority organics	Salinity/TDS/ chlorides	ammonia	Asssess date
INB0335_T1014	05120103030050	Mississinewa River - mainstem	0.93	1998	F	P	X								M					19991108
INB0341_00	05120103040010	BIG LICK CREEK - HEADWATERS	5.10		X	X	X													
INB0343_00	05120103040030	LITTLE LICK CREEK (BLACKFORD)	6.82		X	X	X													
INB0344_00	05120103040040	BIG LICK CREEK - MOORE PRONG/ LITTLE JOE CREEK	7.28		X	X	X													
INB0345_00	05120103040050	BIG LICK CREEK - TOWNSEND LUCAS DITCH	12.57		X	X	X													
INB0351_00	05120103050010	Hoppas Ditch	5.06		X	X	X													
INB0351_T1015	05120103050010	Mississinewa River - mainstem	3.78	1998	N	P	N	M				S		S	M					19991108
INB0352_00	05120103050020	Lake Branch and other tributaries	11.49		X	X	X													
INB0352_T1016	05120103050020	Mississinewa River - mainstem	2.89	1998	X	P	X					S			M					19980301
INB0353_00	05120103050030	BARREN CREEK - FOWLER DITCH	12.50		X	X	X													
INB0354_T1017	05120103050040	Mississinewa River - mainstem	9.42	1998	X	P	X					S			M					19980301
INB0355_00	05120103050050	BACK CREEK (GRANT)	9.09		X	X	X													
INB0356_00	05120103050060	DEER CREEK - LITTLE DEER CREEK	15.36		X	X	X													
INB0356_T1023	05120103050060	Little Creek	4.38		N	X	X	H												19991108
INB0357_00	05120103050070	DEER CREEK - BELL/ DRY FORK DITCH	7.53		X	X	X													
INB0357_T1024	05120103050070	Mississinewa River - mainstem	4.13		F	X	X													
INB0358_00	05120103050080	WALNUT CREEK - LITTLE WALNUT CREEK	9.46		F	X	X													
INB0359_00	05120103050090	WALNUT CREEK - MONROE PRAIRIE CREEK	6.21		F	X	X													
INB035A_00	05120103050100	Walnut Creek	4.95		X	X	X													
INB035A_T1018	05120103050100	Mississinewa River - mainstem	4.16	1998	X	P	X					S			M					19980301
INB035C_00	05120103050120	LUGAR CREEK - TIPPEY DITCH	10.86		X	X	X													
INB035D_00	05120103050130	Boots and Massey Creeks	9.56		P	X	X	H												19991108
INB035D_T1019	05120103050130	Mississinewa River - mainstem	4.11		F	P	N				T	S		S	M					19991122
INB0361_00	05120103060010	Hummel Creek	7.53		P	X	X	H												19991108
INB0361_T1020	05120103060010	Mississinewa River	1.34	1998	F	P	N				T	S		S	M					19991122
INB0362_T1021	05120103060020	Mississinewa River - mainstem	8.80	1998	F	P	N				T	S		H	M					19991108
INB0363_00	05120103060030	Metocinah Creek	8.35		X	X	X													
INB0364_00	05120103060040	MISSISSINEWA RIVER - CART CREEK	10.12		X	X	X													
INB0365_00	05120103060050	GRANT CREEK - BADGER CREEK	7.09		X	X	X													
INB0366_00	05120103060060	MISSISSINEWA LAKE - FORKED BRANCH	7.99		X	X	X													
INB0367_00	05120103060070	TENMILE CREEK	3.23		X	X	X													

Use support: F-fully supporting,P-partially supporting,N-not supporting,X-Not assessed,A-Not attainable. Cause magnitude: S-slight,M-moderate,H-high,T-more information needed. *Biological community status-stressor not identified.

Waterbody ID	Hydrologic unit	Segment name	Size (mi.)	YEAR 303D	Aquatic Life	Fish Cons	Contact (Recr)	Bio comm*	Copper	Cyanide	Lead	Mercury	Low DO	Pathogens	PCBs	Pesticide	Priority organics	Salinity/TDS/ chlorides	ammonia	Asssess date
INB0369_P1022	05120103060090	MISSISSINEWA LAKE	9.79		X	X	X													
INB036A_00	05120103060100	MISSISSINEWA RIVER - BELOW DAM	6.99		F	X	X													

Use support: F-fully supporting,P-partially supporting,N-not supporting,X-Not assessed,A-Not attainable. Cause magnitude: S-slight,M-moderate,H-high,T-more information needed. *Biological community status-stressor not identified.

APPENDIX C

Potential Stakeholders in the Mississinewa River Watershed

Potential Stakeholders in the Mississinewa River Watershed

Madison Cnty Co-Op Extn
16 E 9th St # 303
Anderson, IN 46016
765/ 641-9514

Madison County Board Of Health
206 E 9th St
Anderson, IN 46016
765/ 641-9523

Madison County Commissioner
16 E 9th St
Anderson, IN 46016
765/ 641-9474

Madison County Council-Govts
16 E 9th St # 100
Anderson, IN 46016
765/ 641-9482

Madison County Drainage Board
206 E 9th St
Anderson, IN 46016
765/ 641-9687

Madison Co. Coop Extension
16 East 9th Street
Anderson, IN 46016
765) 641-9514

Madison Co. SWCD
1917 East University Blvd
Anderson, IN 46012
765/ 644-4249

USDA Natural Resource Cons. Service
1917 East University Blvd
Anderson, IN 46012
765/ 644-4249

Converse Water Works
210 N Jefferson St
Converse, IN 46919
765/ 395-3459

Dunkirk Mayor's Office
131 S Main St
Dunkirk, IN 47336
765/ 768-6858

Dunkirk Sewage Disposal
West I St
Dunkirk, IN 47336
765/ 768-6401

Dunkirk Water Dept
304 N Meridian St
Dunkirk, IN 47336
765/ 768-6050

Eaton Sewage Disposal Plant
W Indiana Ave
Eaton, IN 47338
765/ 396-3941

Eaton Water & Sewage Dept
600 E Harris St
Eaton, IN 47338
765/ 396-3980

Sewage Disposal Plant
200 W 8th St
Fairmount, IN 46928
765/ 948-4313

Water Works Office
214 W Washington St
Fairmount, IN 46928
765/ 948-4632

Gas City Mayor's Office
211 E Main St
Gas City, IN 46933
765/ 677-3080

Gas City Sewage Treatment Plnt
500 S Broadway
Gas City, IN 46933
765/ 677-3083

Sewage Dept
107 N Sycamore St
Gaston, IN 47342
765/ 358-3104

Blackford County Landfill
1025 S Willman Rd
Hartford City, IN 47348
765/ 348-5011

Blackford County Offices
124 N Jefferson St
Hartford City, IN 47348
765/ 348-3101

County Health Dept
100 N Jefferson St
Hartford City, IN 47348
765/ 348-4317

County Surveyor
110 W Washington St # 2
Hartford City, IN 47348
765/ 348-1203

Hartford City Mayor's Office
700 N Walnut St
Hartford City, IN 47348
765/ 348-0412

Natural Resources Conservation
319 W Ohio Ave
Hartford City, IN 47348
765/ 348-1404

Natural Resources Dept
120 N Jefferson St
Hartford City, IN 47348
765/ 348-5067

Purdue Extension Office
110 W Washington St
Hartford City, IN 47348
765/ 348-3213

Sewage Disposal Plant
Center Pike Rd
Hartford City, IN 47348
765/ 348-3855

Water & Sewage Office
700 N Walnut St
Hartford City, IN 47348
765/ 348-0410

Water Works
721 S Jefferson St
Hartford City, IN 47348
765/ 348-2230

Blackford County SWCD
319 W. Ohio Avenue
Hartford City, IN 47348-1303
765-348-1404

Cooperative Extension Agents
201 N Jefferson St # 209
Huntington, IN 46750
219/ 358-4826

County Commissioner
201 N Jefferson St # 103
Huntington, IN 46750
219/ 358-4822

Health Dept
201 N Jefferson St # 205
Huntington, IN 46750
219/ 358-4831

Huntington County Surveyor
201 N Jefferson St # 203
Huntington, IN 46750
219/ 358-4856

US Army Corps Of Engineers
State Road 5 S
Huntington, IN 46750
219/ 356-8648

US Farm Svc Agency
2040 Riverfork Dr
Huntington, IN 46750
219/ 356-6816

Huntington County SWCD
2040 Riverfork Drive, West
Huntington, IN 46750-9004
219-356-6816

Jonesboro Mayor's Office
414 S Main St
Jonesboro, IN 46938
765/ 674-4393

La Fontaine Water & Sewage
22 W Branson St
La Fontaine, IN 46940
765/ 981-4591

Marion City Engineer Office
301 S Branson St Fl 3
Marion, IN 46952
765/ 668-4441

Marion Mayor's Office
301 S Branson St Fl 2
Marion, IN 46952
765/ 662-9931

Marion Sewer Maintenance Dept
1540 N Washington St
Marion, IN 46952
765/ 662-9668

Marion Waste Water Treatment
1540 N Washington St
Marion, IN 46952
765/ 664-9056

Grant County Health Department
Courthouse Complex, 401 S Adams St
Marion, IN 46953-2031
765/ 651-2404

Grant County SWCD
1113 East 4th Street
Marion, IN 46952-4211
765/ 668-8985

Coop Extension - Grant County
401 S. Adams Street
Marion, IN 46953-2035
765/ 651-2413

Grant County Commissioners Ofc
401 S Adams St
Marion, IN 46953
765/ 668-8871

Grant County Surveyors Office
401 S Adams St
Marion, IN 46953
765/ 668-8871

US Consolidated Farm Svc Agcy
1111 E 4th St
Marion, IN 46952
765/ 668-8983

Delaware Co. SWCD
2904 Granville Avenue
Muncie, IN 47303
765-747-5531

Delaware County Board-Health
100 W Main St # 207
Muncie, IN 47305
765/ 747-7721

Delaware County Commissioners
100 W Main St # 309
Muncie, IN 47305
765/ 747-7730

Delaware County Extension
100 W Main St # 202
Muncie, IN 47305
765/ 747-7732

Delaware County Surveyor
100 W Main St # 203
Muncie, IN 47305
765/ 747-7806

USDA Natural Resources Conservation Service
2904 Granville Avenue
Muncie, IN 47303
765-747-5531

Miami County Co-Op Extension
21 Court St
Peru, IN 46970
765/ 472-1921

Miami County Offices
25 Court St # 211a
Peru, IN 46970
765/ 473-4649

Miami County SWCD
1170 US Highway 24 W
Peru, IN 46970
765/ 473-6110

Natural Resources Dept
1124 N Mexico Rd
Peru, IN 46970
765/ 473-9722

Jay Co Coop Purdue University
120 W Main St
Portland, IN 47371
219/ 726-4707

Jay County Commissioners
120 N Court St
Portland, IN 47371
219/ 726-7595

Jay County Engineer
1035 E 200 N
Portland, IN 47371
219/ 726-8701

Jay County Health Dept
120 N Court St
Portland, IN 47371
219/ 726-8080

Jay County Surveyor
120 N Court St
Portland, IN 47371
219/ 726-8784

Jay County SWCD
Route 2 Box 1E, Highway 67 W
Portland, IN 47371-1146
219/ 726-4888

Redkey Sewage Disposal
S Union
Redkey, IN 47373
765/ 369-2811

Redkey Water Plant
Sherman St
Redkey, IN 47373
765/ 369-2807

Union City Mayor's Office
115 N Columbia St
Union City, IN 47390
765/ 964-3700

Union City Sewage Disposal
825 N Jackson Pike
Union City, IN 47390
765/ 964-5544

Union City South Side Plant
216 W Maple St
Union City, IN 47390
765/ 964-5101

Union City Water Works
Deerfield Rd
Union City, IN 47390
765/ 964-5521

US Agricultural Dept
599 Bryan Ave
Wabash, IN 46992
219/ 563-7486

Wabash County Health Dept
89 W Hill St
Wabash, IN 46992
219/ 563-0661

Wabash County SWCD
599 Bryan Avenue
Wabash, IN 46992-1019
219-563-7486

Randolph Co. SWCD
975 East Washington St. Suite 2
Winchester, IN 47394
765/ 584-4505

Health Dept
211 S Main St
Winchester, IN 47394
765/ 584-1155

Randolph County Area Planning
100 S Main St # 207
Winchester, IN 47394
765/ 584-8610

Randolph County Building Comm
Courthouse # 207
Winchester, IN 47394
765/ 584-0275

Randolph County Extension Ofc
1885 S US Highway 27
Winchester, IN 47394
765/ 584-2271

Randolph County Surveyor
100 S Main St # 206
Winchester, IN 47394
765/ 584-0609

US Consolidated Farm Svc
State Rd 32 E
Winchester, IN 47394
765/ 584-4505

STATE STAKEHOLDERS

Indiana Farm Bureau Inc.
225 S East St
Indianapolis, IN 46202
(317) 692-7851

Indiana Department of Environmental Management
100 N. Senate Ave
P.O. Box 6015
Indianapolis, IN 46206-6015

IDEM Switchboard
(317) 232-8603 or (800) 451-6027

Agricultural Liaison
(317) 232-8587

Air Management
(317) 233-0178

Community Relations
(317) 233-6648

Compliance and
Technical Assistance
(317) 232-8172

Criminal
Investigations
(317) 232-8128

Enforcement
(317) 233-5529

Environmental
Response
(317) 308-3017

Legal Counsel
(317) 232-8493

Media and
Communication
Services
(317) 232-8560

Pollution Prevention
and Technical
Assistance
(317) 232-8172

Solid and Hazardous
Waste Management
(317) 233-3656

Water Management
(317) 232-8670

Indiana Department of Natural Resources
402 West Washington Street
Indianapolis, IN 46204-2748

IDNR, Division of Soil Conservation, Field Representatives are generally located with the SWCD office in each county.
Division of Engineering
(317) 232-4150

Division of Entomology
and Plant Pathology
(317) 232-4120

Division of Fish & Wildlife
(317) 232-4080

Division of Forestry
(317)-232-4105

Division of Historic
Preservation & Archaeology
(317) 232-1646

Division of Law Enforcement
(317) 232-4010

Division of State
Parks and Reservoirs
(317)-232-4124

Division of Water
(317)-232-4160

Division of Public
Information and Education
(317) 232-4200

Division of Reclamation
(317)-232-1547

Division of Safety and Training
(317) 232-4145

Division of Soil Conservation
(317)-233-3870

Division of Oil and Gas
(317) 232-4055

Division of Outdoor Recreation
(317)-232-4070

Division of Nature Preserves
(317)-232-4052

Indiana State Department of Health
2 North Meridian St.
Indianapolis, IN 46204
(317) 233-1325

FEDERAL STAKEHOLDERS

Natural Resources
Conservation Service
6013 Lakeside Blvd
Indianapolis, In 46278
(317) 290-3200

NRCS Field Representatives are generally located with the SWCD office in each county.

U.S. EPA Region 5
77 West Jackson Blvd
Chicago, IL 60604
(312) 353-2000
(800) 632-8431

APPENDIX D

FUNDING SOURCES

FUNDING SOURCES

This listing of funding sources was derived from the November 1998 *Watershed Action Guide for Indiana*, which is available from the Watershed Management Section of IDEM.

FEDERAL CONSERVATION AND WATERSHED PROGRAMS

Environmental Protection Agency

Section 319, 604(b), and 104(b)3 Grants

Grants for conservation practices, water body assessment, watershed planning, and watershed projects. Available to non-profit or governmental entities. These monies, enabled by the Clean Water Act, are funneled through the Indiana Department of Environmental Management. *For details see IDEM below*.

U.S. Department of Agriculture (See county listings for local federal agency contacts.)

EQIP: Environmental Quality Incentive Program. Administered by the Natural Resources Conservation Service. Conservation cost-share program for implementing Best Management Practices, available to agricultural producers who agree to implement a whole-farm plan that addresses major resource concerns. Up to $50,000 over a 5- to 10-year period. Some parts of the state are designated Conservation Priority Areas and receive a larger funding allotments.

WRP: Wetland Reserve Program. Administered by the Natural Resources Conservation Service. Easement and restoration program to restore agricultural production land to wetland. Easements may be for 10 years, 30 years, or permanent. Longer easements are preferred. Partnerships with other acquisition programs are encouraged. Restoration and legal costs are paid by NRCS. Landowner retains ownership of the property and may use the land in ways that do not interfere with wetland function and habitat, such as hunting, recreational development, and timber harvesting.

CRP: Conservation Reserve Program. Administered by the Farm Service Agency with technical assistance from NRCS. Conservation easements in certain critical areas on private property. Agricultural producers are eligible. Easements are for 10 or 15 years, depending on vegetative cover, and compensation payments are made yearly to replace income lost through not farming the land. Cost share is available for planting vegetative cover on restored areas.

WHIP: Wildlife Habitat Incentive Program. Administered by the Natural Resources Conservation Service. Cost share to restore habitat on previously farmed land. Private landowners who are agricultural producers are eligible. Cost share up to 75%, and contracts are for 10 years.

FIP: Forestry Incentive Program. Administered by the Natural Resources Conservation Service. Cost-share to assist forest management on private lands. Funds may be limited.

U.S. Fish & Wildlife Service

Partners for Wildlife: assistance for habitat restoration.

STATE CONSERVATION AND WATERSHED PROGRAMS

IDNR Division of Soil Conservation

LARE: Lake & River Enhancement Program. Funds diagnostic and feasibility studies in selected watersheds and cost-share programs through local Soil & Water Conservation Districts. Project oversight provided through county-based Resource Specialists and Lake & River Enhancement Watershed Coordinators. Funding requests for Watershed Land Treatment projects must come from Soil & Water Conservation Districts. If a proposed project area includes more than one district, the affected SWCDs should work together to develop an implementation plan. The SWCDs should then apply for the funding necessary to administer the watershed project. Before applying for funding, the SWCDs should contact the Lake & River Enhancement Coordinators to determine (1) the appropriate watershed to include in the project, (2) if the proposed project meets the eligibility criteria, and (3) if funding is available.

IDNR Division of Fish & Wildlife

Classified Wildlife Habitat Program: Incentive program to foster private wildlife habitat management through tax reduction and technical assistance. Landowners need 15 or more acres of habitat to be eligible. IDNR provides management plans and assistance through District Wildlife Managers. See county listings.

Wildlife Habitat Cost-share Program: Similar to above.

IDNR Division of Forestry

Classified Forest Program: Incentive program to foster private forest management through tax reduction and technical assistance. Landowners need 10 or more acres of woods to be eligible. IDNR provides management plans and assistance through District Foresters. (See county listings.)

Classified Windbreak Act: Establishment of windbreaks at least 450 feet long adjacent to tillable land. Provides tax incentive, technical assistance through IDNR District Foresters.

Forest Stewardship Program & Stewardship Incentives Program: Cost share and technical assistance to encourage responsibly managed and productive private forests.

IDNR Division of Reclamation

Appalachian Clean Streams Initiative: Funds for acid mine drainage abatement.

IDNR Division of Nature Preserves

State Nature Preserve Dedication: Acquisition and management of threatened habitat.

IDEM Office of Water Management

State Revolving Fund: Available to municipalities and counties for facilities development. Will be available in 1999 for nonpoint source projects as well. Funding is through very low-interest loans.

Section 319 Grants: Available to nonprofit groups, municipalities, counties, and institutions for implementing water quality improvement projects that address nonpoint source pollution concerns. Twenty-five percent match is required, which may be cash or in-kind. Maximum grant amount is $112,500. Projects are allowed two years for completion. Projects may be for land treatment through implementing Best Management Practices, for education, and for developing tools and applications for state-wide use.

Section 205(j) Grants, formerly called 604(b) Grants: Available to municipalities, counties, conservation districts, drainage districts. These are for water quality management projects such as studies of nonpoint pollution impacts, nonagricultural NPS mapping, and watershed management projects targeted to Northwest Indiana (including BMPs, wetland restoration, etc.)

Section 104(b)(3) Grants: These are watershed project grants for innovative demonstration projects to promote statewide watershed approaches for permitted discharges, development of storm water management plans by small municipalities, projects involving a watershed approach to municipal separate sewer systems, and projects that directly promote community based environmental protection. NOTE: the application time frame for IDEM grant programs is annually, by March 31st.

PRIVATE FUNDING SOURCES

National Fish and Wildlife Foundation

1120 Connecticut Avenue, NW Suite 900, Washington DC 20036. Nonprofit, established by Congress 1984, awards challenge grants for natural resource conservation. Federally appropriated funds are used to match private sector funds. Six program areas include wetland conservation, conservation education, fisheries, migratory bird conservation, conservation policy, and wildlife habitat.

Individual Utilities

Check local utilities such as IPALCO, CINergy, REMC, NIPSCO. Many have grants for educational and environmental purposes.

Indiana Hardwood Lumbermen's Association

Indiana Tree Farm Program

The Nature Conservancy

Land acquisition and restoration.

Southern Lake Michigan Conservation Initiative
Blue River Focus Area
Fish Creek Focus Area
Natural Areas Registry
Hoosier Landscapes Capitol Campaign

Conservation Technology Information Center (CTIC)

'Know Your Watershed' educational materials are available

Indiana Heritage Trust

Land acquisition programs

Ducks Unlimited

Land acquisition and habitat restoration assistance

Quail Unlimited

Pheasants Forever

Sycamore Land Trust

Acres Inc.

Land trust

Oxbow, Inc.

Land trust

SOURCES OF ADDITIONAL FUNDING OPPORTUNITIES

Catalog of Federal Funding Sources for Watershed Protection
EPA Office of Water (EPA841-B-97-008) September 1997

GrantsWeb: http://www.srainternational.org/cws/sra/resource.htm